

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 2, 1972

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 107	
Location 800/S, 1190/W, Sec. 36 T 29N, R 6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7873	Tubing: Diameter 1.900	Set At: Feet 7819
Pay Zone: From 7624	To 7846	Total Depth: 7873	Shut In 7-24-72
Stimulation Method S.W.F.		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2441	+ 12 = PSIA 2453	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1790	+ 12 = PSIA 1802	
Flowing Pressure: P PSIG 221	+ 12 = PSIA 233		Working Pressure: P _w PSIG 519	+ 12 = PSIA 531	
Temperature: T = 63 °F	n = .75		F _{pv} (From Tables) 1.017	Gravity .590	F _g = 1.0084

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(233)(.9971)(1.0084)(1.017) = \underline{2946} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

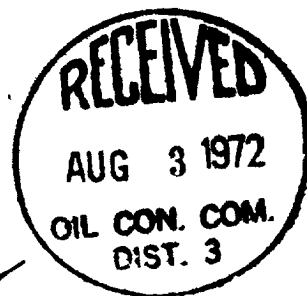
NOTE: Well produced light mist of water and distillate throughout the test.

$$Aof = \left(\frac{6017209}{5735248} \right)^n = (2946)(1.0492)^{.75} = (2946)(1.0367)$$

$$Aof = \underline{3054} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____



J. A. Jones
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